

# **AIRDROP OF SUPPLIES AND EQUIPMENT: RIGGING FORWARD AREA REFUELING EQUIPMENT (FARE)**



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Washington, DC, 19 May 1997

**AIRDROP OF SUPPLIES AND EQUIPMENT  
RIGGING FORWARD AREA REFUELING EQUIPMENT (FARE)**

This change adds the procedures for rigging the 4-inch, 350-GPM wheel-mounted POL pumping assembly with filter/separator.

FM 10-537/TO 13C7-1-19, 28 February 1983, is changed as follows:

1. New or changed material is identified by a vertical bar in the margin opposite the changed material.
2. File this transmittal sheet in front of the publication for reference purposes.
3. Remove old pages and insert new pages as indicated below:

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v and vi

References -1

**Insert new page**

v through vii

10-1 through 10-31

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## **PREFACE**

### **SCOPE**

This manual tells and shows how to prepare and rig the 4-inch, 350-GPM wheel-mounted POL pumping assembly with filter/separator for low-velocity airdrop. It is designed for use by all parachute riggers.

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## CHAPTER 10

### RIGGING THE 4-INCH, 350-GPM WHEEL-MOUNTED POL PUMPING ASSEMBLY WITH FILTER/SEPARATOR

#### 10-1. Description of Load

The 4-inch, 350-GPM wheel mounted POL pumping assembly with filter/separator (Figure 10-1) is rigged on a 16-foot type V platform for low-velocity airdrop with two G 11 cargo parachutes. It consists of two pumps, each weighing 2,100 pounds and two filter/separators each weighing 425 pounds. It is approximately 76 3/4 inches in height, 108 inches in width and 211 inches in length with an overhang of 5 inches in front and 17 inches in the rear. The total rigged weight with parachutes is 7,880 pounds.

#### 10-2. Preparing Platform

Prepare a 16-foot type V platform using two tandem links, four suspension links and sixteen tie-down clevises as shown in Figure 10-2.

##### Notes:

1. The nose bumper may or may not be installed.
2. Measurements given in this section are from the front edge of the platform, not from the front edge of the nose.

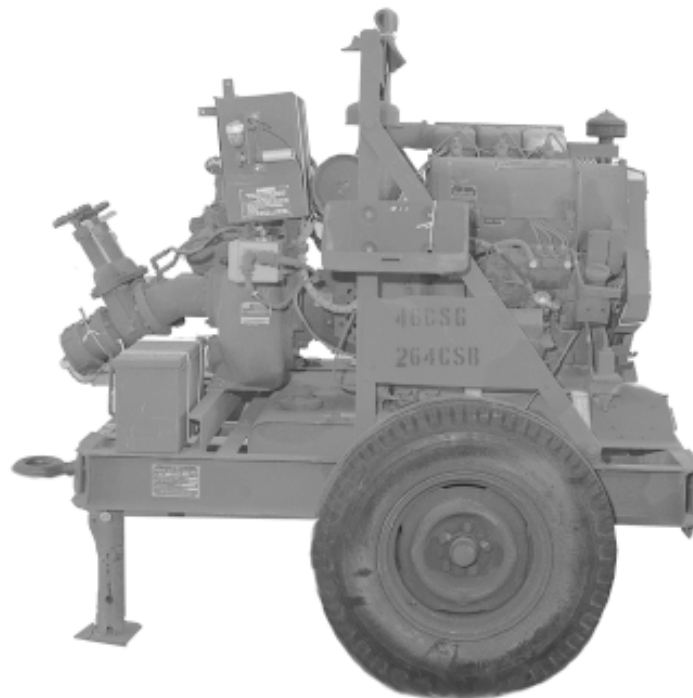
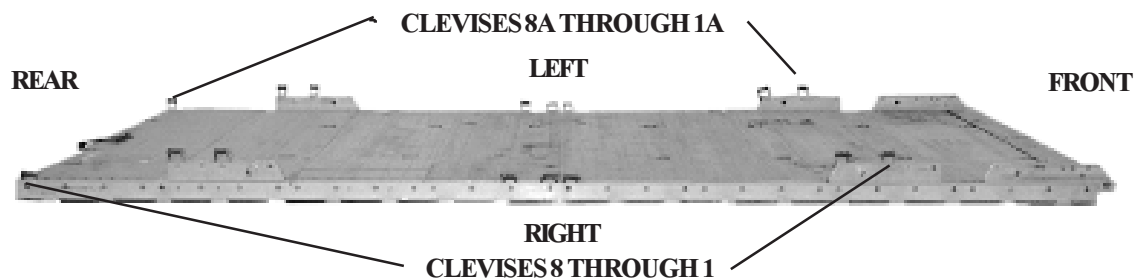


Figure 10-1. Pumping assembly with filters/separators



Step:

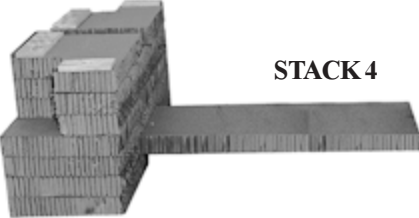
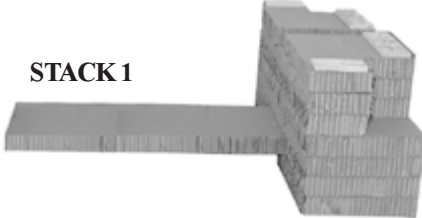
1. Install a tandem link to the front of each platform side rail using holes 1, 2, and 3.
2. Install a suspension link to each side rail using holes 6, 7, 8, 25, 26 and 27.
3. Install a clevis on bushings 3 and 4 on the forward suspension links.
4. Install a clevis on bushings 1 and 4 on the aft suspension links.
5. Starting at the front of each platform side rail, install clevises on the bushings bolted on holes 16, 17, 18, and 32.
6. Starting at the front of the platform, number the clevises 1 through 8 on the right side and 1A through 8A on the left side.
7. Label the tie-down rings according to FM 10-500-2/TO 13C7-1-5.

*Figure 10-2. Platform prepared*

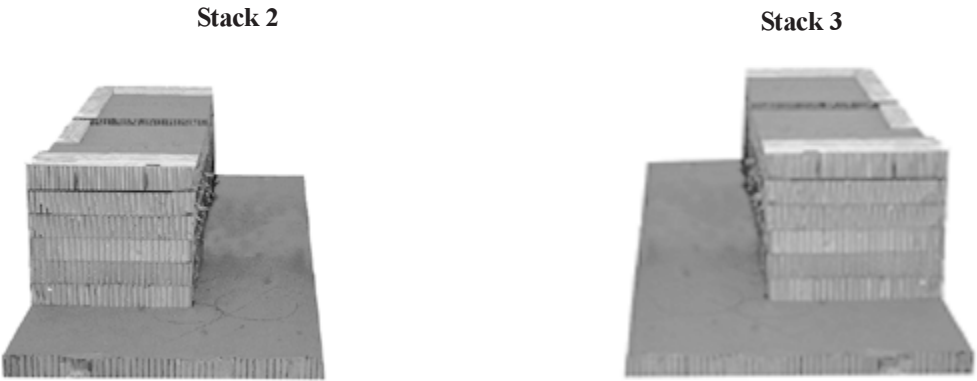


**10-3. Preparing Honeycomb Stack**

Build honeycomb stacks as shown in Figures 10-3 through 10-6.

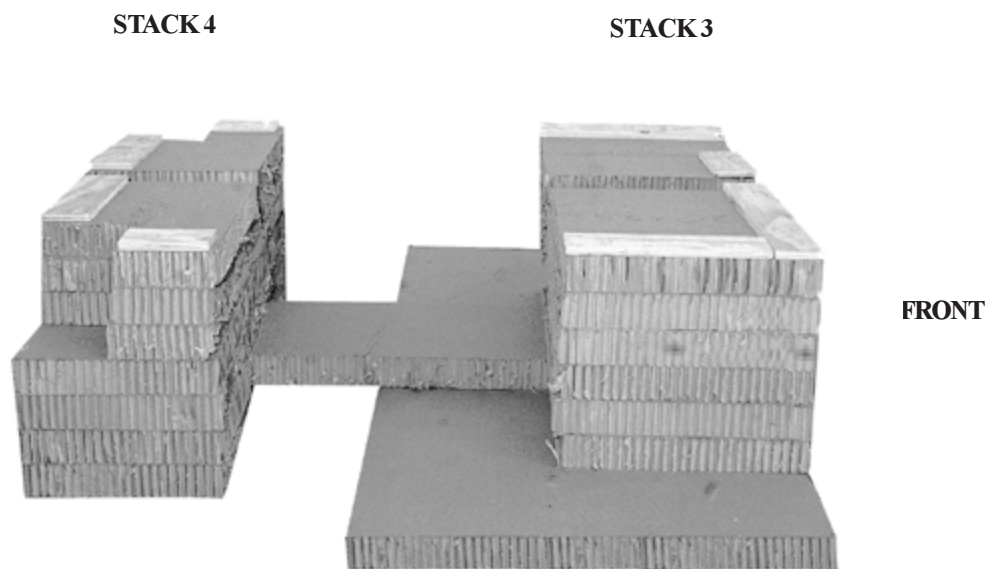
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p><b>STACK 4</b></p> </div> <div style="text-align: center;">  <p><b>STACK 1</b></p> </div> </div>					
Stack Number	Pieces	Width (Inches)	Length (Inches)	Material	Instructions
1 & 4	1	51	16	Honeycomb	Form base.
	2	16	16	Honeycomb	Glue one end on each side of the base.
	1	16	64	Honeycomb	Glue one end centered between the 16-inch by 16-inch pieces and flush with the front edge of the base.
	2	51	16	Honeycomb	Glue on base.
	2	51	16	Honeycomb	Notch the right and left corners of each piece with a 8-inch by 8-inch cut and glue one on the right side and one on the left side.
	2	4	7	3/4-inch Plywood	Glue one on the right and left side of the base.
	2	14	4	3/4-inch Plywood	Glue one on the right and left side of the base.

*Figure 10-3. Honeycomb stacks 1 and 4 prepared*

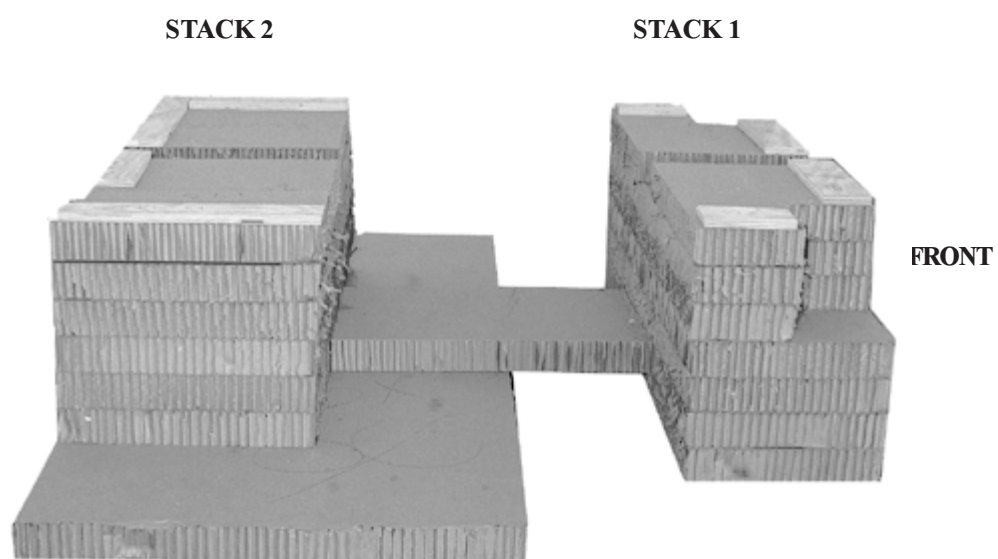


Stack Number	Pieces	Width (Inches)	Length (Inches)	Material	Instructions
2 & 3	1	80	36	Honeycomb	Center bridge from stack 1 with bridge end flush with outside edge of base and glue. Repeat step for stack 4.
	2	16	20	Honeycomb	Glue one piece on the right and left sides of the bridge 14 1/2-inches from the right and left sides of the base and flush with the outside edge of the base.
	4	51	20	Honeycomb	Glue to base.
	2	23	20	Honeycomb	Glue one piece to each side of the base.
	1	4	20	3/4-inch Plywood	Glue to the right front edge of the base.
	1	10	4	3/4-inch Plywood	Glue to the right rear edge of the base.
	1	23	4	3/4-inch Plywood	Glue to the left rear edge of base.
	1	4	16	3/4-inch Plywood	Glue to the left side of the base.

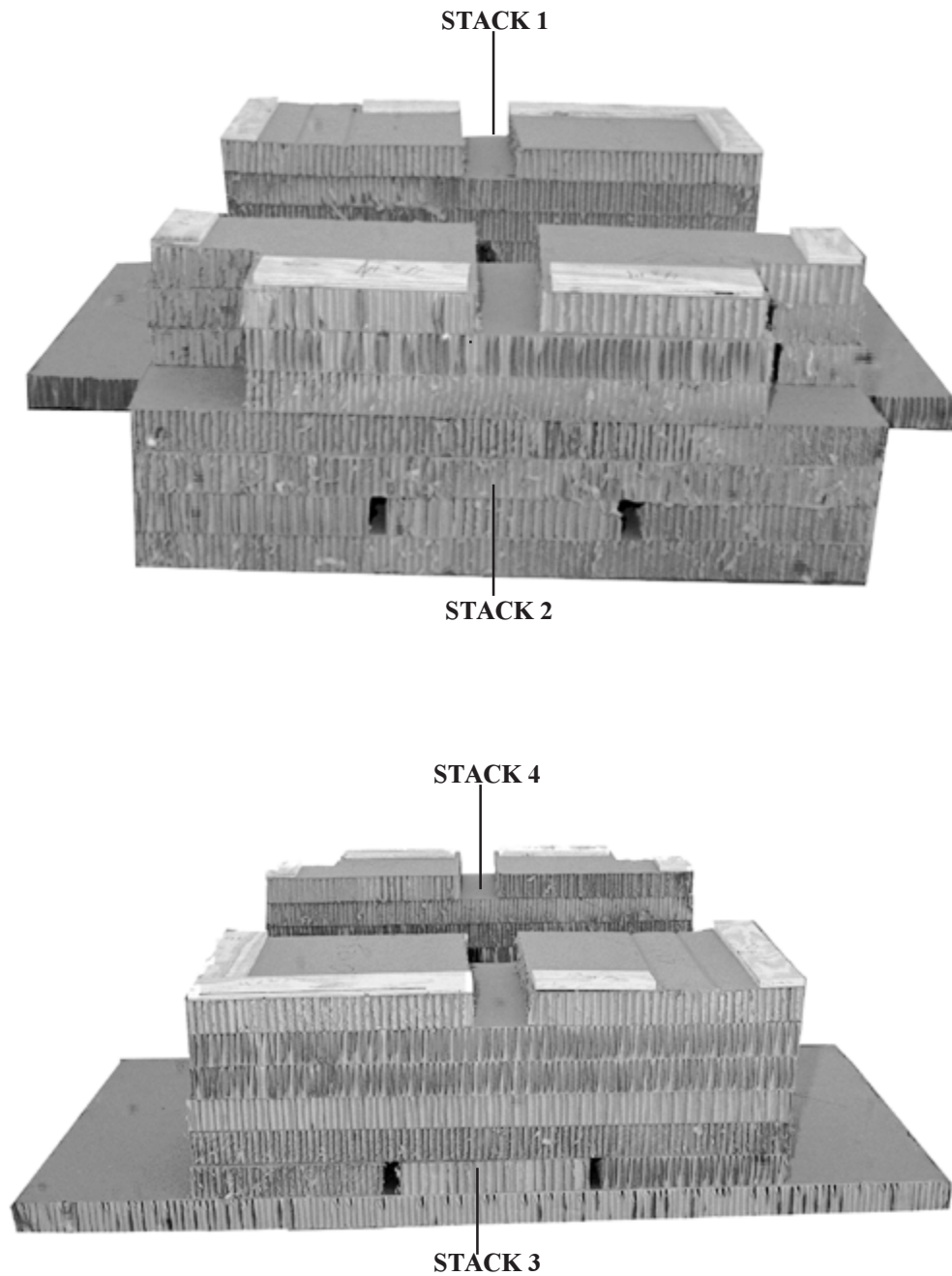
Figure 10-6. Honeycomb Stacks 2 and 3 prepared



*Figure 10-4. Honeycomb stacks 3 and 4 prepared*



*Figure 10-5. Honeycomb Stacks 2 and 1 Prepared*



*Figure 10-7. Honeycomb stacks 1, 2, 3, and 4 prepared*

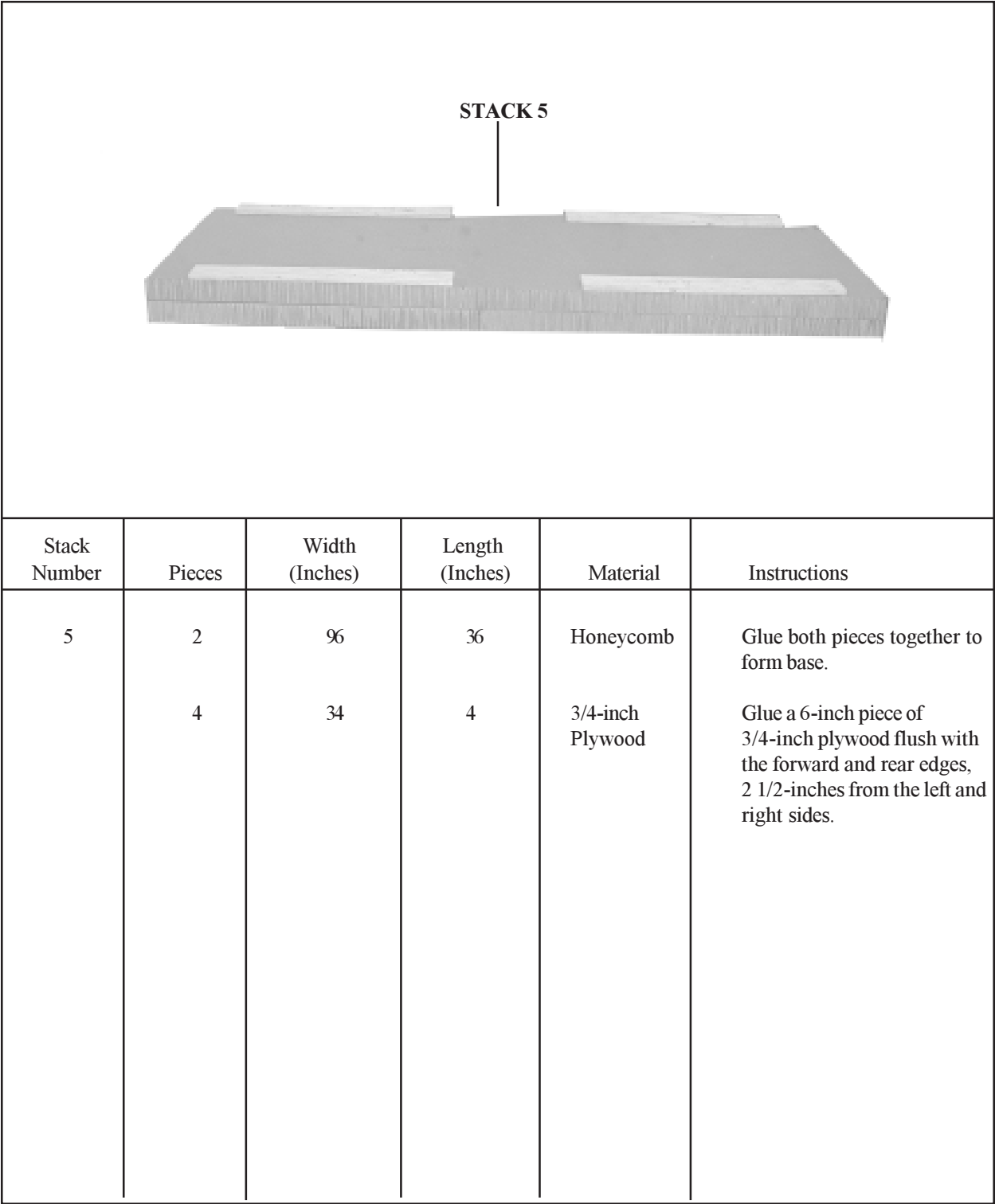
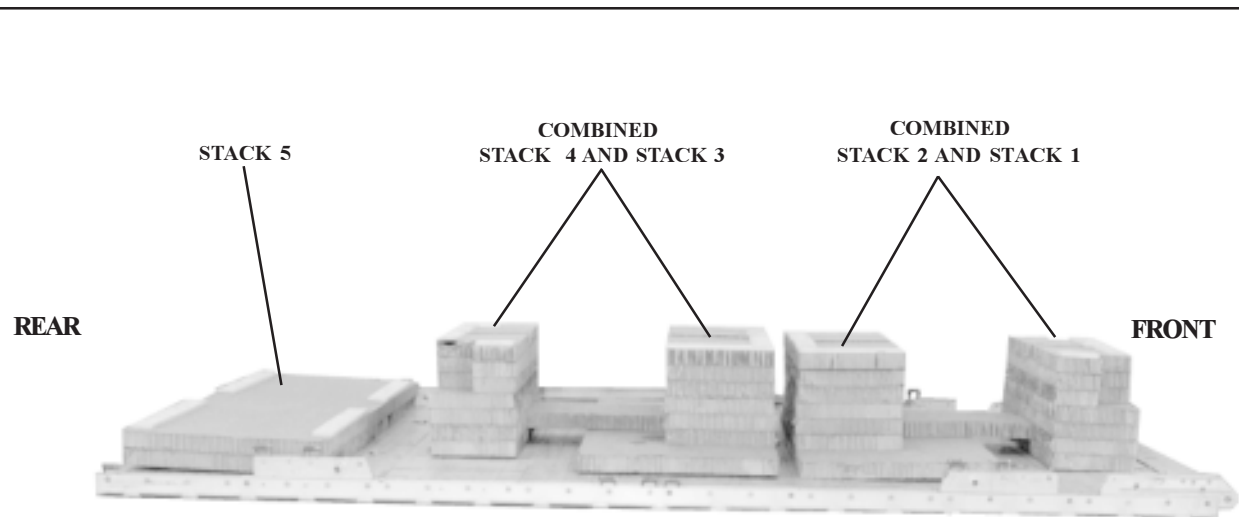


Figure 10-8. Honeycomb Stack 5 Prepared

#### 10-4. Positioning Honeycomb Stacks

Position honeycomb stacks as shown in Figure 10-9.



Step:

1. Place combined stack 1 and stack 2 centered and 6 inches from the front edge of the platform.
2. Place combined stack 3 and stack 4 centered and 6 inches from stack 2.
3. Place stack 5 centered and 4 inches from the rear edge of the platform.

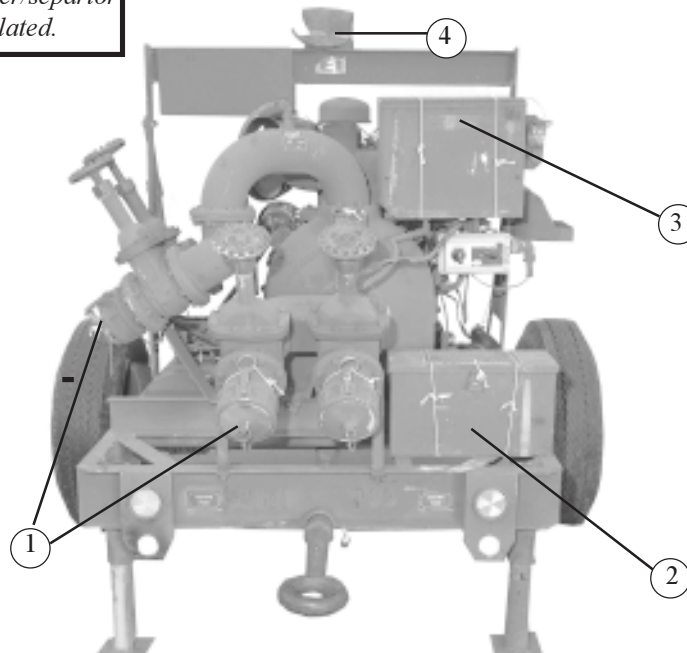
*Figure 10-9. Honeycomb stacks positioned*

### 10-5. Preparing the Pump Assembly and Filter/Separator

Prepare the pump assembly and filter/separator as shown in Figure 10-10.

**Note:**

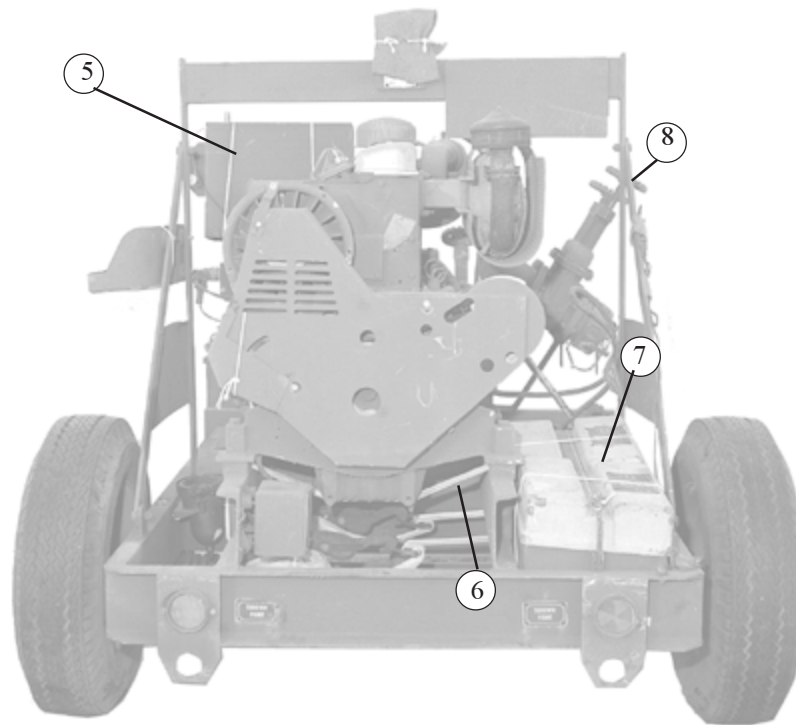
*The fuel pump must be drained of all fuel and the filter/separator purged and left ventilated.*



- ① Secure all fuel caps with type III nylon cord.
- ② Secure lid to storage box with type III nylon cord.
- ③ Secure cover to control panel with type III nylon cord.
- ④ Cover top lifting point with felt and secure with type III nylon cord.

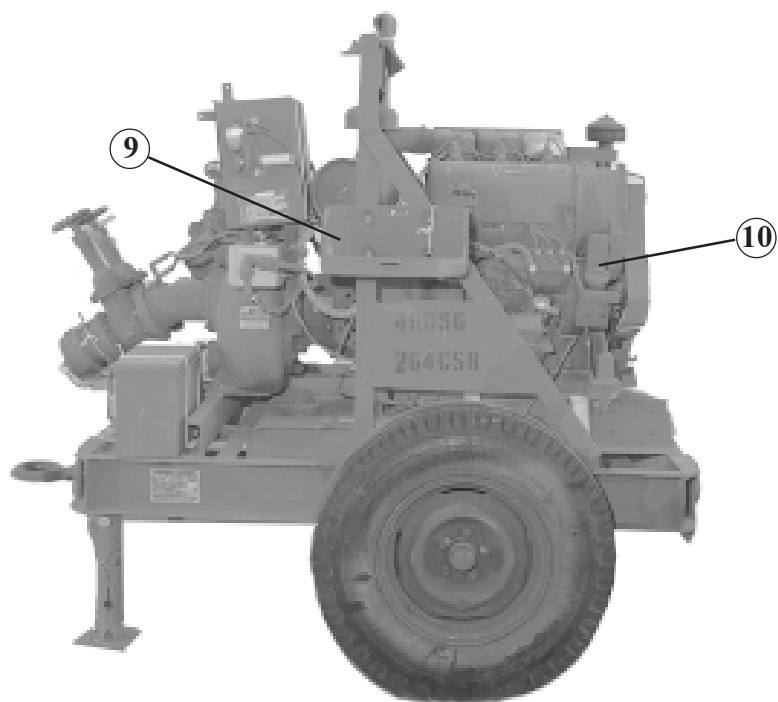
*Figure 10-10. Pump assembly and filter/separator prepared*





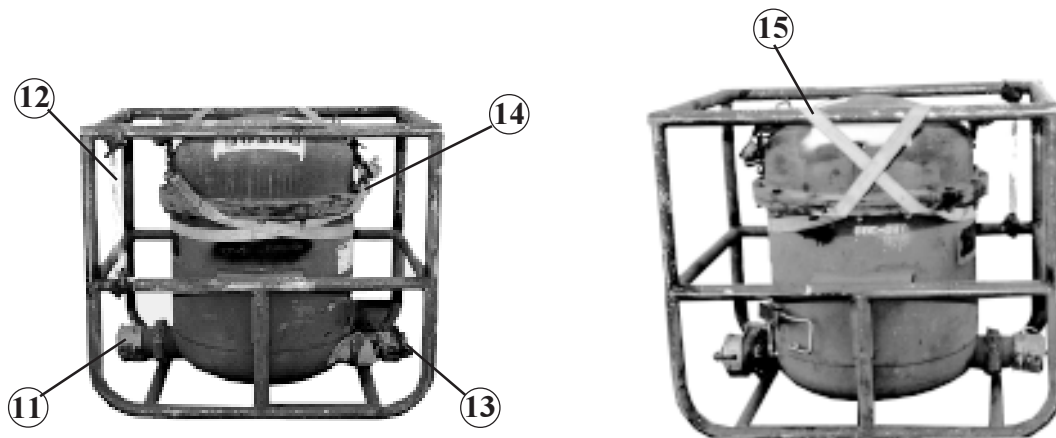
- ⑤ Secure the starter/speed control box to the attaching bracket with type III nylon cord.
- ⑥ Support the engine by running two 15-foot lashings around the frame supports and under the oil pan. Space the lashings to the front and rear of the oil pan.
- ⑦ Remove the battery box lids and secure each battery to its own box with type III nylon cord. Replace the lids and secure in place with 1/2- inch tubular webbing, going around both boxes and bottom supports.
- ⑧ Secure the ground rod in its holder with type III nylon cord.

*Figure 10-10. Pump assembly and filter/separator prepared (continued)*



- ⑨ Secure fuel can bracket to frame with type III nylon cord.
- ⑩ Tape oil cap in place with cloth back adhesive tape.

*Figure 10-10. Pump assembly and filter/separator prepared (continued)*

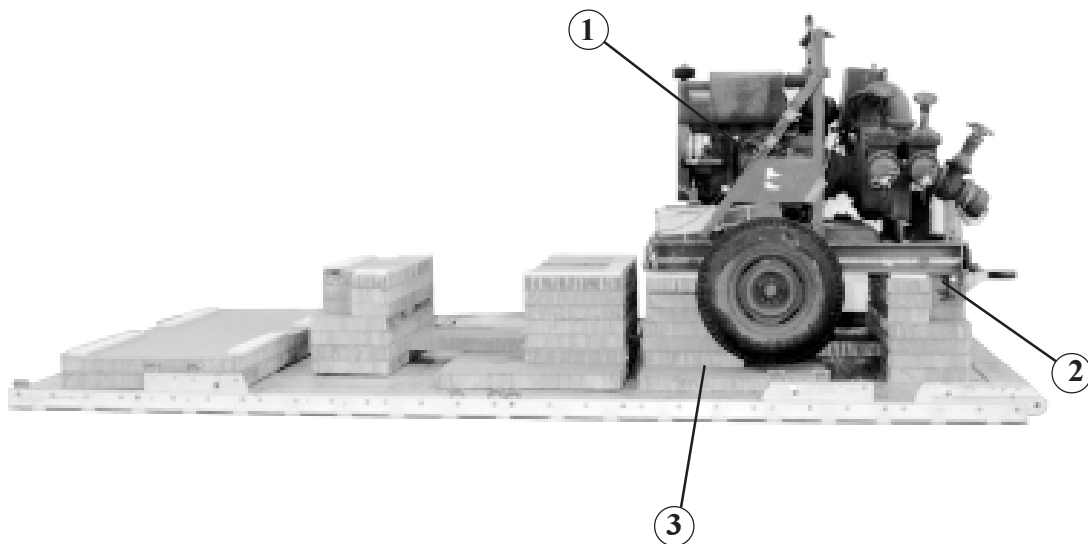


- ⑪ Secure fuel caps on the filter/separator with type III nylon cord.
- ⑫ Secure the ground cable to the frame with cloth back adhesive tape.
- ⑬ Pad the small outlet valve with cellulose and cloth back adhesive tape.
- ⑭ Run a 15-foot lashing around the filter under the bolted top on the inlet side and around the top lateral frame support and secure.
- ⑮ Run another 15-foot lashing around the filter under the bolted top on the outlet side and around the top lateral frame support and secure.

Figure 10-10. Pump assembly and filter/separator prepared (continued)

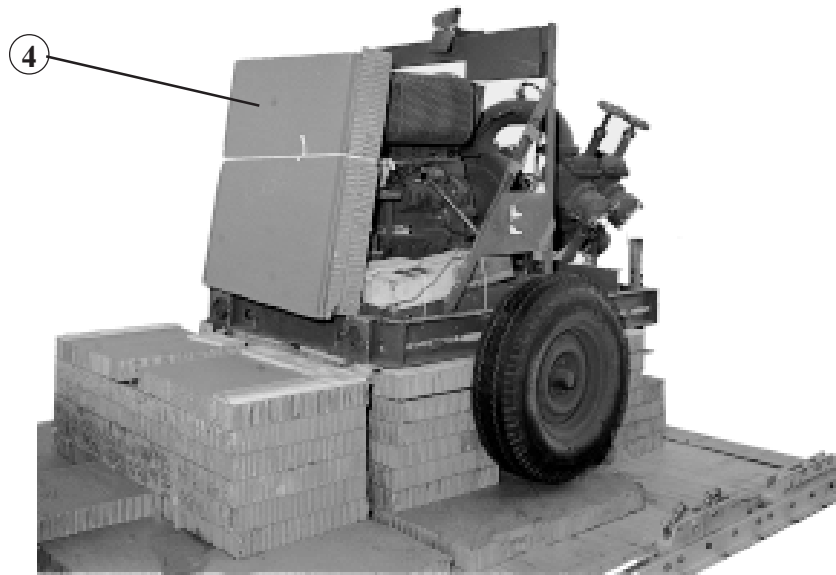
#### 10-6. Positioning the Pump Assembly and Filter/Separator

Position the pump assembly and filter/separator as shown in Figure 10-11.



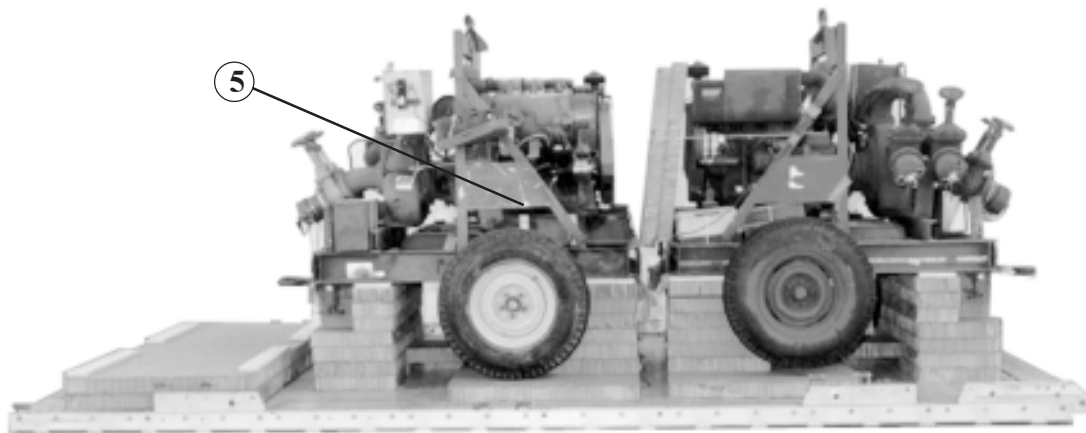
- ① Position the first pump assembly with the lunette 4 1/2 inches forward of the front edge of the platform.
- ② Retract legs.
- ③ Center on honeycomb stacks combination 1 and 2.

*Figure 10-11. Pump assembly and filter/separator positioned*



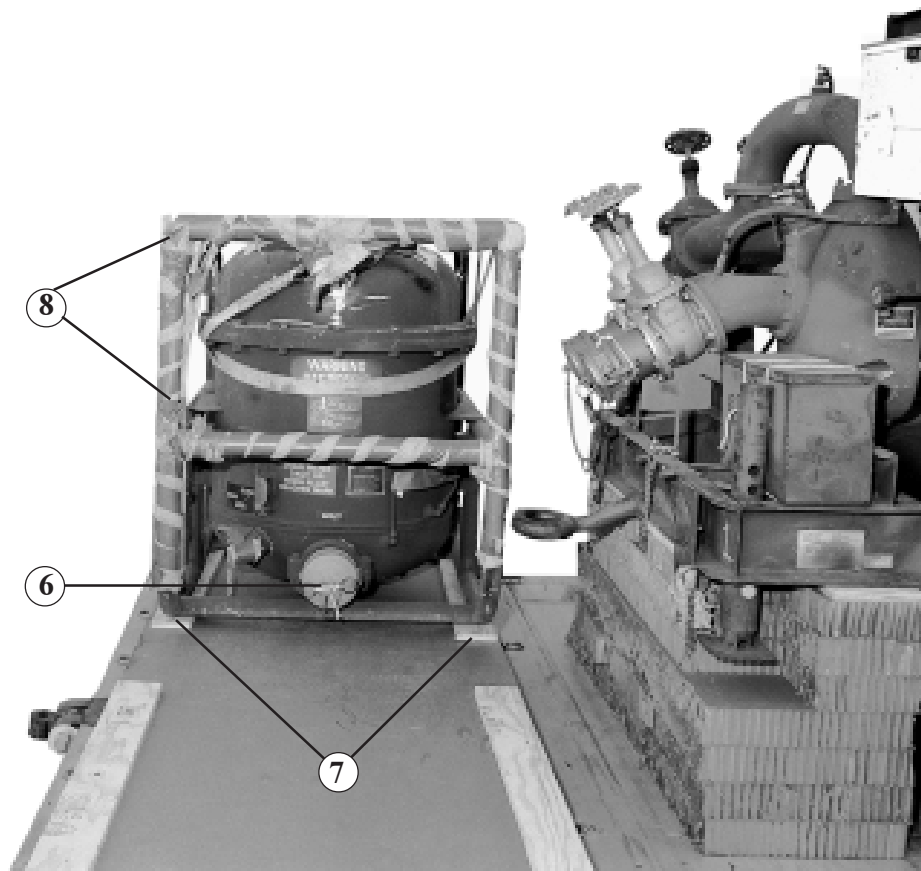
- ④ Cut and tie two pieces of 32-inch wide by 36-inch long honeycomb to the rear of the pump assembly.

*Figure 10-11. Pump assembly and filter/separator positioned (continued)*



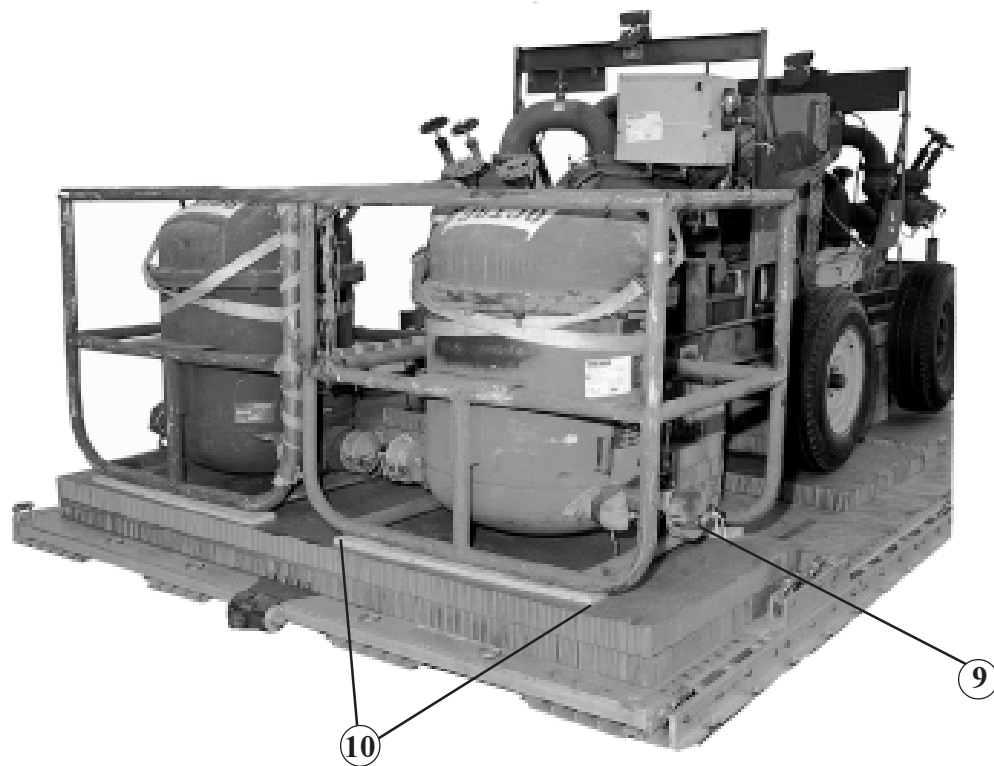
- ⑤ Position the second pump assembly 6 inches (measured from frame to frame) from the front pump and center on the combination honeycomb stacks 3 and 4.

*Figure 10-11. Pump assembly and filter/separator positioned (continued)*



- ⑥ Position one of the filters with the outlet valve to the center of the platform.
- ⑦ Center the filter evenly on the plywood and on the left side of honeycomb stack 5.
- ⑧ Pad the right side of the frame with cellulose wadding and tape in place.

*Figure 10-11. Pump assembly and filter/separator positioned (continued)*



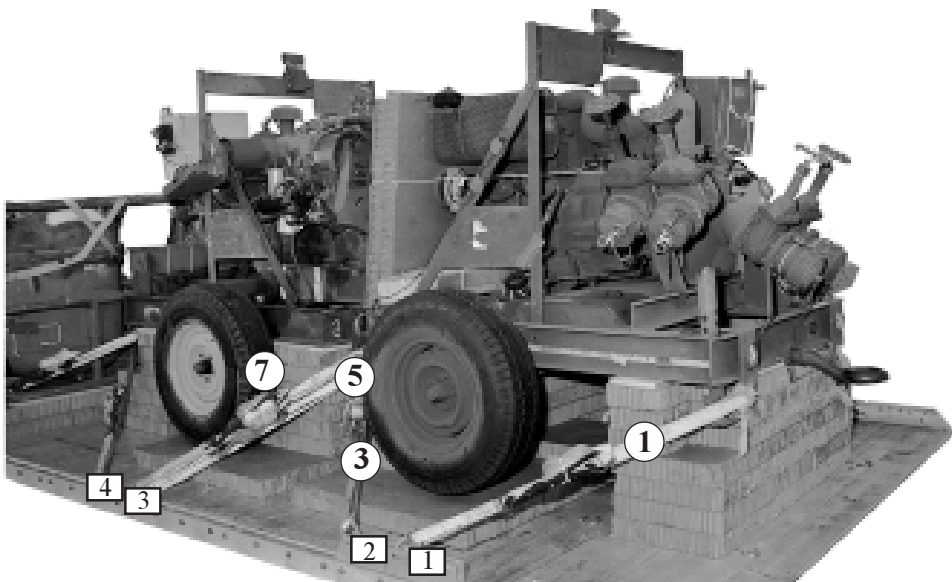
- ⑨ Position the second filter with the outlet valve facing to the right side of the platform.
- ⑩ Center the filter evenly on the plywood and on the right side of honeycomb stack 5.

*Figure 10-11. Pump assembly and filter/separator positioned (continued)*



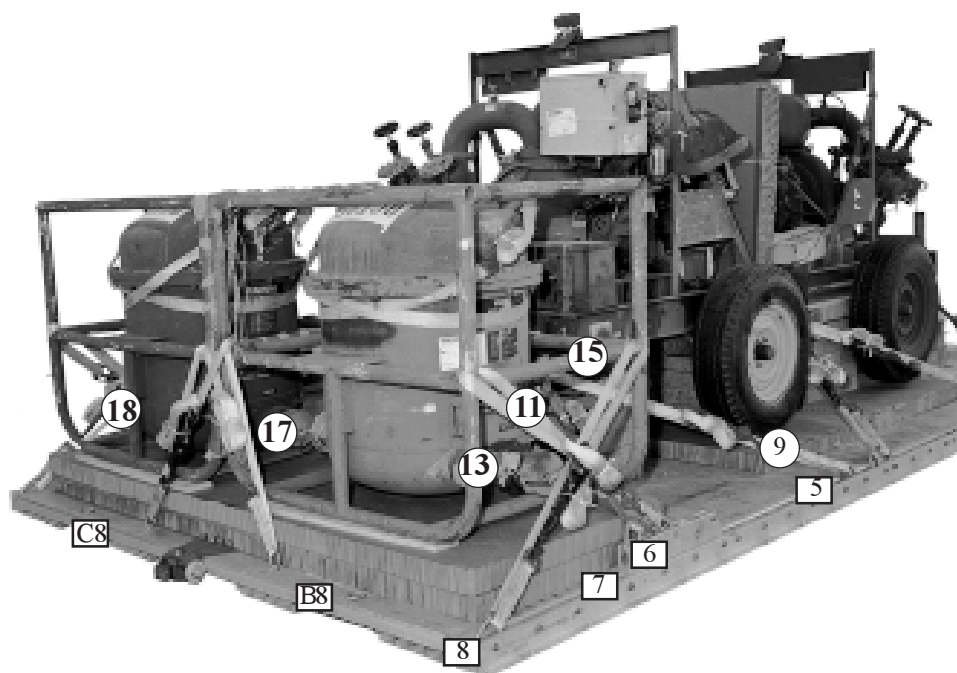
10-7. Lashing the Pump Assembly and Filter/Separator to the Platform

Lash the pump assembly and filter/separator to the platform using eighteen 15-foot tie-down assemblies as shown in Figures 10-12 and 10-13.



Lashing Number	Clevis Number	Instructions
1	1	Pass lashing: Through tie-down point number 1, right front side. Through tie-down point number 1, left front side. Through tie-down point number 2, right rear side. Through tie-down point number 2, left rear side. Through tie-down point number 2, right rear side. Through tie-down point number 2, left rear side. Note: Aft pump is pointed rearwards. Through tie-down point number 2, left rear side. Through tie-down point number 2, right rear side.
2	1A	
3	2	
4	2A	
5	3	
6	3A	
7	4	
8	4A	

Figure 10-12. Lashings 1 through 8 installed

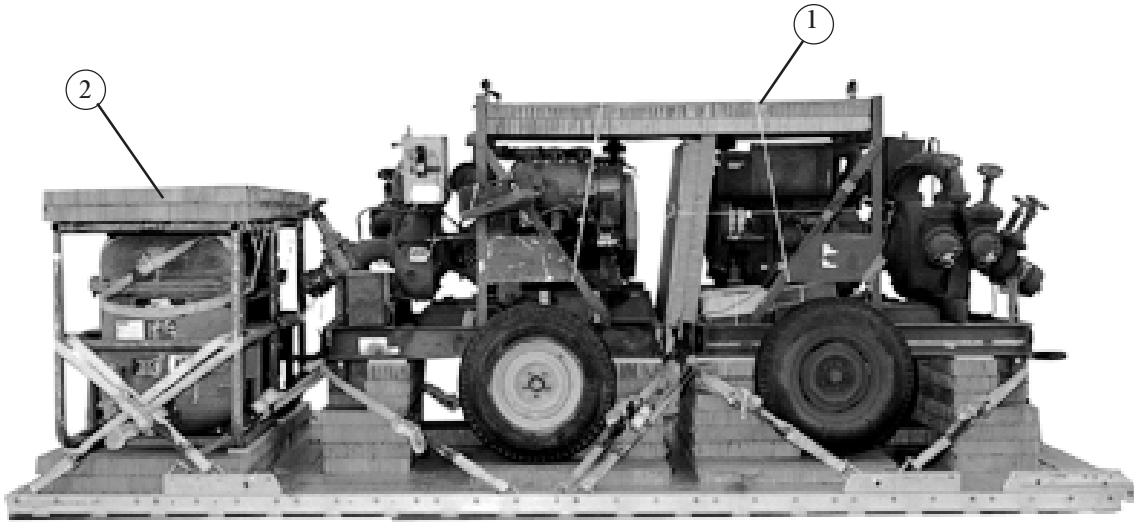


Lashing Number	Clevis Number	Instructions
9	5	Pass lashing:
10	5A	Through tie-down point number 1, left front side.
11	7	Through tie-down point number 1, right front side.
12	7A	Through tie-down point number 1, left front side.
13	6	Through tie-down point number 1, right front side.
14	6A	Through and around right rear vertical frame.
15	8	Through and around left rear vertical frame.
16	8A	Through and around right front vertical frame.
17	B8	Through and around left front vertical frame.
18	C8	Through and around both center rear vertical frames.
		Through and around both center rear vertical frames.

Figure 10-13. Lashings 9 through 18 installed

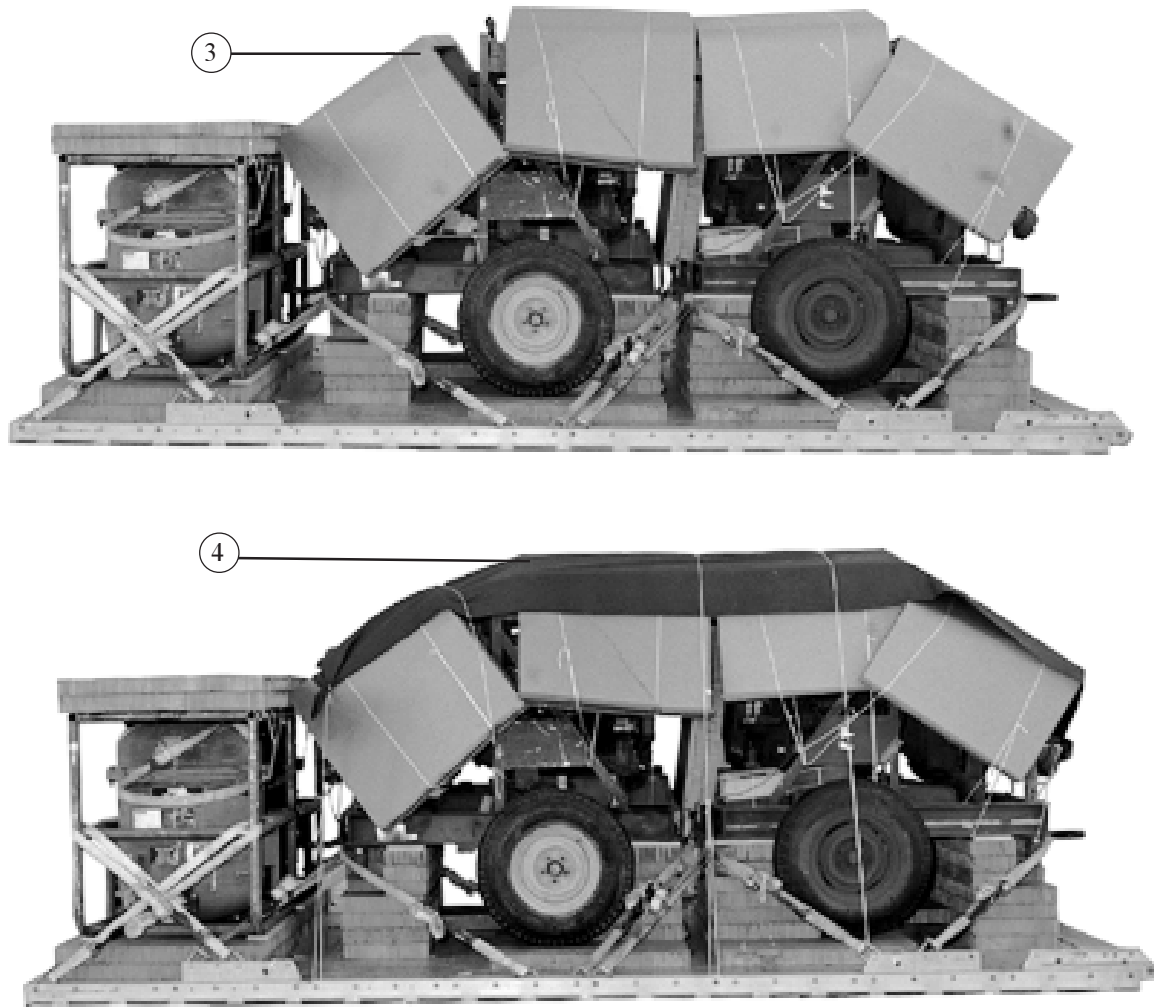
### 10-8. Constructing the Parachute Tray and Load Cover

Construct the parachute tray and load cover as shown in Figures 10-14..



- ① Position two pieces of 36-inch by 96-inch honeycomb on top of the filters. Secure them to the filters with type III nylon cord.
- ② Cut two pieces of 36-inch by 72-inch honeycomb and position them on top of the two pumps. Secure in place with type III nylon cord.

*Figure 10-14. Parachute tray and cover constructed*

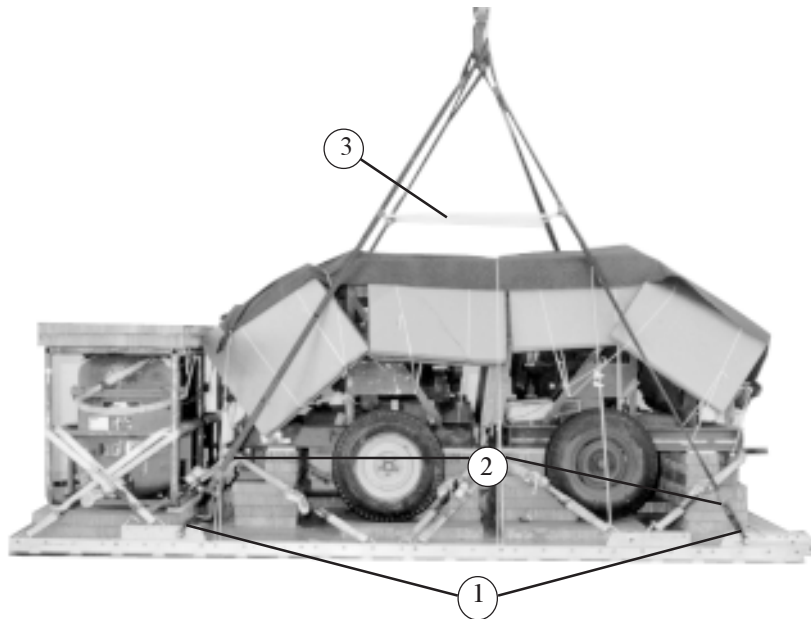


- ③ Position and bend four sheets of 36-inch by 96-inch honeycomb over the two pumps. Place two sheets in the center and one sheet on each end of the pumps. Secure in place with type III nylon cord.
- ④ Position a 5-foot by 15-foot load cover over the honeycomb in step number 3. Secure in place with type III nylon cord.

*Figure 10-14. Parachute tray and cover construed (continued)*

### 10-9. Installing the Suspension Slings and Deadman's Tie

Install the suspension slings and deadman's tie as shown in Figure 10-15.

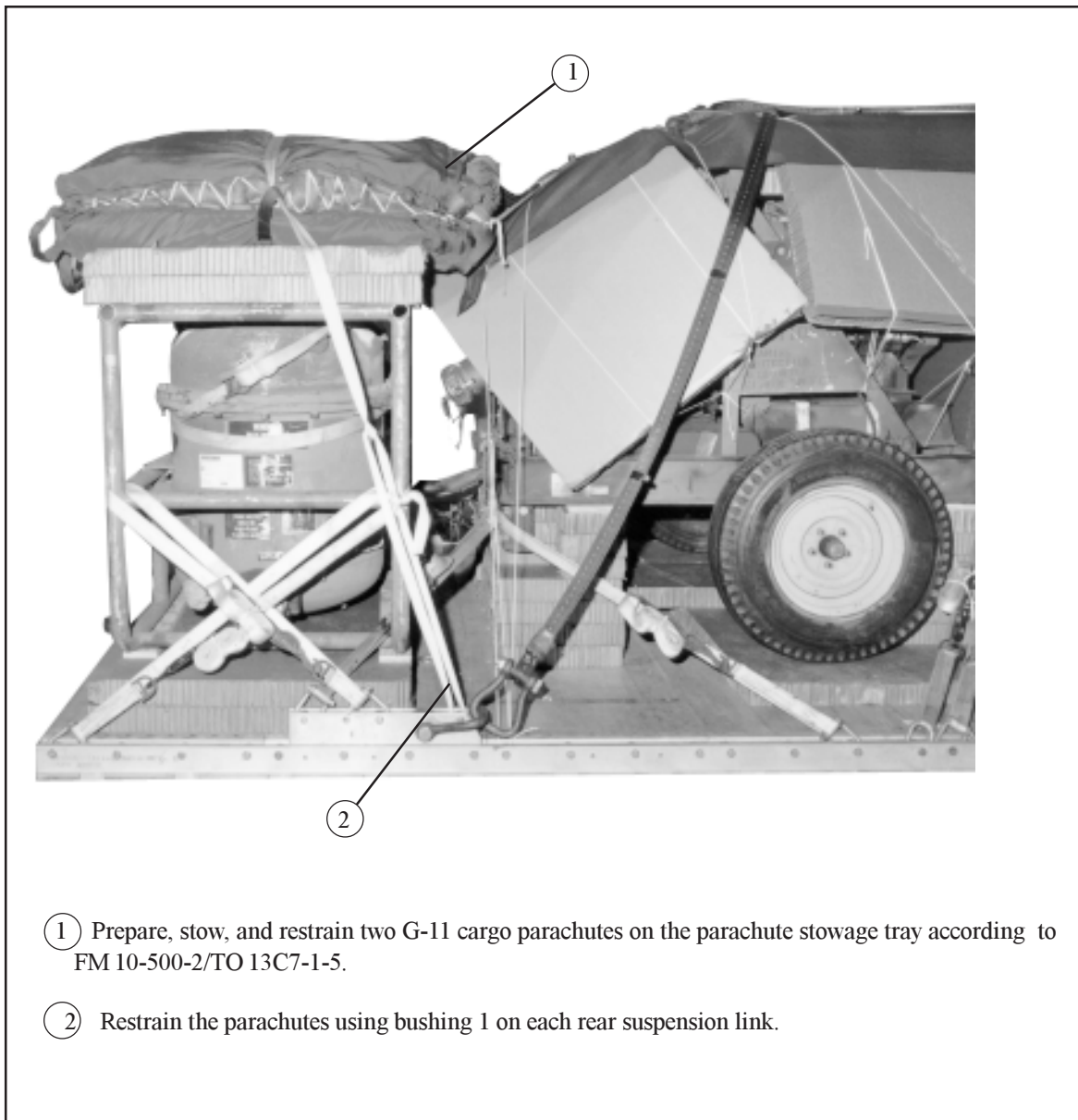


- ① Attach a large clevis to each front suspension link and two large clevises to each rear suspension link and tie the two clevises together with type III nylon cord.
- ② Attach a 12-foot (2-loop), type XXVI nylon suspension sling to each clevis on the front suspension links and each set of large clevises on the rear suspension links.
- ③ Raise the slings and install the deadman's tie according to FM 10-500-2/TO 13C7-1-5.

*Figure 10-15. Suspension slings and deadman's tie installed*

#### 10-10. Preparing, Stowing and Restraining Cargo Parachutes

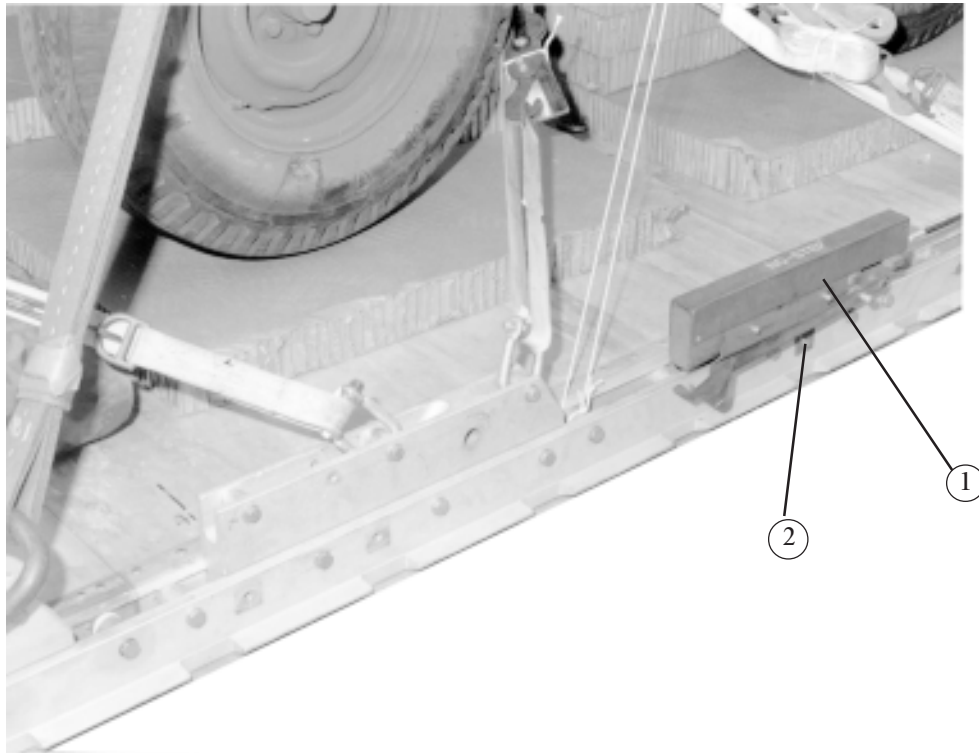
Prepare, stow and restrain two G 11 cargo parachutes on the parachute stowage tray according to FM 10-500-2/TO 13C7-1-5, and as shown in Figure 10-16.



*Figure 10-16. Cargo parachutes prepared*

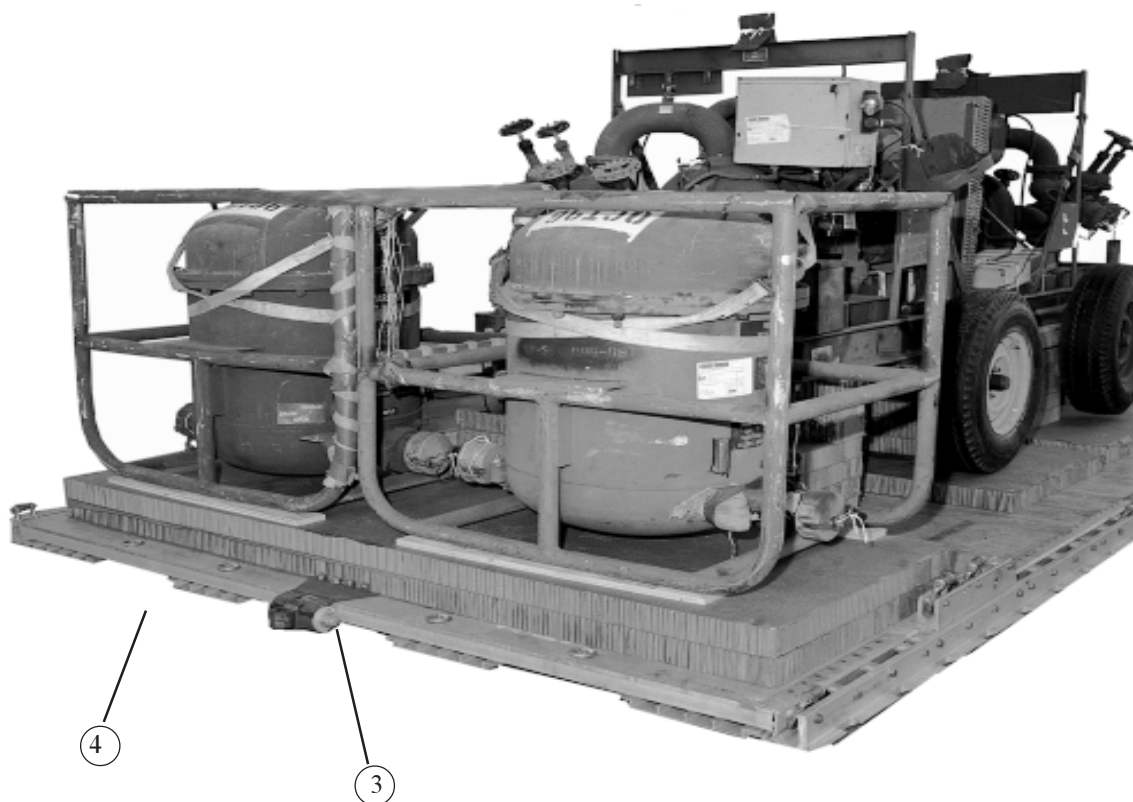
### 10-11. Installing the Extraction System

Install the components of the extraction force transfer coupling (EFTC) according to FM-500-2/TO 13C7-1-5 and as shown in Figure 10-17.



- ① Install the components of the EFTC according to FM 10-500-2/TO 13C7-1-5.
- ② Use the rear mounting holes for the EFTC bracket.

*Figure 10-17. Extraction system installed*



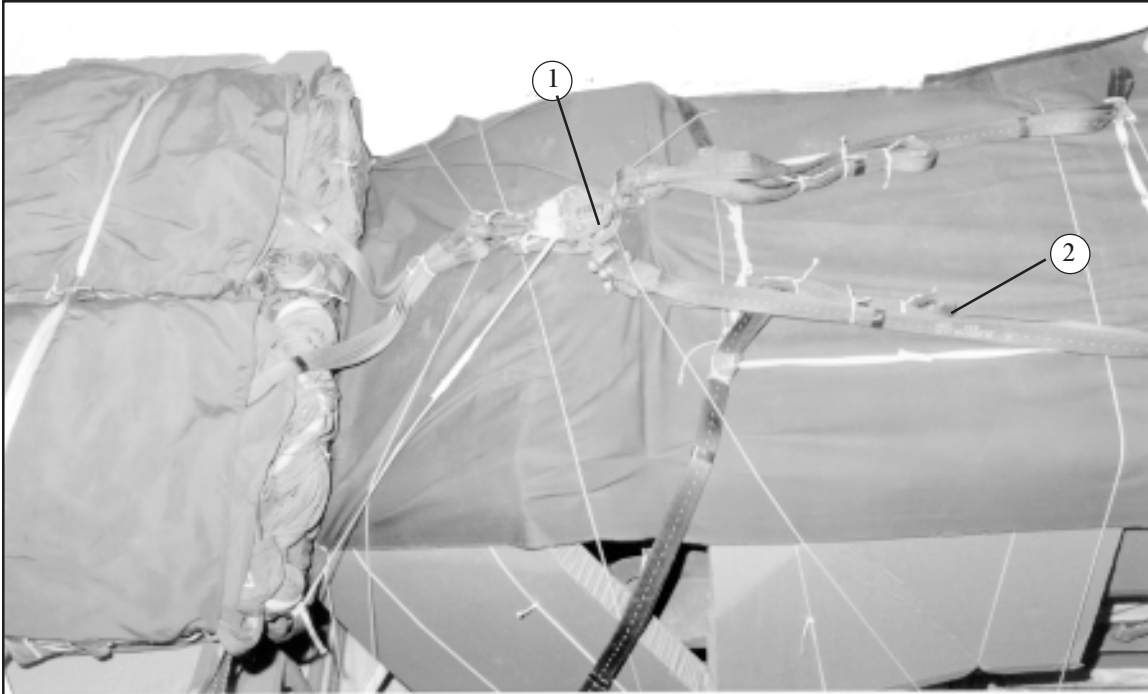
- ③ Attach a 9-foot (2-loop), type XXVI nylon sling to be used as a deployment sling.
- ④ Use a 16-foot EFTC cable and safety the cable to tie-down ring D8 using one turn of type I, 1/4-inch cotton webbing.

*Figure 10-17. Extraction system installed (continued)*



### 10-12. Installing the Release System

Position and install the M-1 release assembly according to FM 10-55-2/TO 13C7-1-5 and as shown in Figure 10-18.



- ① Position and install the M-1 release assembly on top of the load cover according to FM 10-500-2/TO 13C7-1-5 and safety tie it to convenient points on the load.
- ② Fold and tie any slack in the suspension slings.

*Figure 10-18. Release system installed*

### **10-13. Installing Provisions for Emergency Restraints**

Select and install provisions for the emergency aft restraints according to the emergency aft restraint requirements table in FM 10-500-2/TO 13C7-1-5.

### **10-14. Placing Extraction Parachutes**

Select the extraction parachute and extraction line needed using the extraction line requirements table in FM 10-500-2/TO 13C7-1. Place the extraction parachutes and extraction line on the load for installation in the aircraft.

### **10-15. Marking Rigged Load**

Mark the rigged load according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 10-19. Complete Shipper's Declaration for Dangerous Goods form. If the load varies from the one shown, the weight, height, CB, and parachute requirements must be recomputed.

### **10-16. Equipment Required**

Use the equipment listed in Table 10-1 to rig this load.

**CAUTION**

Make the final rigger inspection required by FM 10-500-2/  
TO13C7-1-5 before the load leaves the rigging site.

**RIGGED LOAD DATA**

Weight:	7,880 pounds
Maximum Weight:	13,380 pounds
Height:	76 3/4 inches
Width:	108 inches
Length:	211 inches
Overhang: Front	5 inches
Rear	17 inches
Center of Balance: (from front of platform)	100 inches

*Figure 10-19. 350-GPM wheel-mounted POL pumping assembly with filter/separator rigged*

*Table 10-1. Equipment required for rigging the 4-inch, 350-GPM wheel-mounted POL pumping assembly with filter/separator for low-velocity airdrop on a type V platform*

National Stock Number	Item	Quantity
8040-00-273-8713	Adhesive, paste, 1-gal	As required
4030-00-090-5354	Clevis, suspension, 1-in (large)	7
8305-00-242-3593	Cloth, cotton duck, 60-in	As required
4020-00-240-2146	Cord, nylon, type III, 550-lb	As required
1670-00-434-5785	Coupling, airdrop, extraction force transfer with cable, 16ft	1
1670-00-360-0328	Clevis, large	2
8135-00-664-6958	Cushioning material, packaging, cellulose wadding	As required
5365-00-937-0147	D-ring, heavy duty, 10,000lbs	68
1670-01-183-2678	Leaf, extraction line (line bag)	2
	Line, extraction:	
1670-01-062-6313	60-ft (3-loop), type XXVI (for C130)	1
1670-01-107-7651	140-ft (3-loop), type XXVI (for C141, C5, or C17)	1
1670-00-783-5988	Link assembly, type IV	3
1670-00-753-3928	Pad, energy-dissipating (honeycomb) 3-by 36-by 96-in	20
	Parachute:	
	Cargo:	
1670-01-016-7841	G-11B	2
	Cargo extraction:	
1670-01-063-3716	22-ft	1
	Platform, airdrop, type V, 16-ft	
1670-01-353-8425	Bracket assembly	1
1670-01-162-2372	Clevis assembly, type V	16
1670-01-353-8424	Extraction bracket assembly	1
1670-01-247-2389	Suspension link	4
1670-01-162-2389	Tandem link assembly (Multipurpose link)	2

*Table 10-1. Equipment required for rigging the 4-inch, 350-GPM wheel-mounted POL pumping assembly with filter/separator for low-velocity airdrop on a platform (continued)*

National Stock Number	Item	Quantity
5530-00-128-4981	Plywood, 3/4-in:	
	4-by 7-in	4
	14- by 4-in	4
	4-by 20-in	2
	10-by 4-in	2
	23- by 4-in	2
	4-by 4-in	2
	4-by 16-in	2
	34-by 4-in	8
1670-01-097-8816	Release, cargo parachute, M-1	1
	Sling, cargo, airdrop	
	For suspension and lifting:	
1670-01-062-6303	12-ft (2-loop), type XXVI nylon webbing	4
	For deployment:	
1670-01-062-6304	9-ft (2-loop), type XXVI nylon webbing	1
1670-00-040-8219	Strap, parachute release	1
7510-00-266-5016	Tape, PSA, cloth back, 2-in	As required
1670-00-937-0271	Tie-down assembly, 15-ft	38
	Webbing:	
8305-00-268-2411	Cotton, 1/4-in, type I	As required
8305-00-082-5752	Nylon, tublar, 1/2-in	As required
8305-00-263-3591	Type VIII	As required

## REFERENCES

These documents must be available to the intended users of this publication.

\*AFJMAN 24-204/TM 38-250. Packaging and Materials Handling: Preparing Hazardous Materials for Military Air Shipments. 25 November 1994.

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FM 10-517/TO 13C7-1-111. Airdrop of Supplies and Equipment: Rigging 1 1/4-Ton Utility Truck (HMMWV). 14 November 1989.

TM 9-2330-202-14&P. Operator's, Organizational, Direct Support and General Support Maintenance Manual Including Repair Parts and Special Tools List for Trailer, Cargo; 3/4-Ton, 2-Wheel M101, M101A, and Chassis, Trailer; 3/4-Ton, 2-Wheel, M116, M116A1 and M116A2. 07 October 1983.

TM 10-1670-208-20&P/TO 13C3-4-12. Organizational Maintenance Manual Including Repair Parts and Special Tools List for Platforms, Type II Modular and LAPES/Airdrop Modular. 10 August 1978.

TM 10-1670-268-20&P/TO 13C7-52-22. Organizational Maintenance Manual with Repair Parts and Special Tools List, Type V Airdrop Platform. 01 June 1986.

TM 10-1670-286-20/TO 13C5-2-41. Unit Maintenance Manual for Sling/Extraction Line Panel (Including Stowing Procedures). 01 April 1986.

\*\*TM 10-4930-229-12&P. Operator and Unit Maintenance Manual (Including Repair Parts and Special Tools List) for Forward Area Refueling Equipment (FARE). 26 September 1991.

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AFTO Form 22. Technical Order Publication Improvement Report. April 1973.

DA Form 2028. Recommended Changes to Publications and Blank Forms. April 1973.

\*\*\*Shipper's Declaration for Dangerous Goods. Locally Procured Form.

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\* AFJMAN 24-204/TM 38-250 has superseded AFR 71/TM 38-250 (15 January 1988). Change 4 reflects this change. The basic manual and changes 1, 2, and 3 still reference the superseded publication. You may wish to make pen and ink changes to update the old reference citations accordingly.

\*\*TM 10-4930-229-12&P has superseded TM 5-4930-229-12&P (07 January 1975). Change 4 reflects this change. The basic manual and changes 1, 2, and 3 still reference the superseded publication. You may wish to make pen and ink changes to update the old reference citations accordingly.

\*\*\*Shipper's Declaration for Dangerous Goods has superseded DD Form 1387-2 (February 1982). Change 4 reflects this change. The basic manual and changes 1, 2, and 3 still reference the superseded publication. You may wish to make pen and ink changes to update the old reference citations accordingly.